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Fri 23 Feb 2001
Eff. Date 03/11/99

U.S. Army Corps of Engineers
PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)

TIME 12:19:57
TITLE PAGE 1

HANFORD: ER PROGRAM
D&D FACILITIES
PIPING TRESTLE (PTSL01)
Rev.1 4/99

Designed By:
Estimated By: BECHTEL HANFORD, INC.

Prepared By:

Preparation Date: 05/20/99
Effective Date of Pricing: 03/11/99

Sales Tax: 8.00%

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Release 5.30C

Notes:

Rev 0. Model was originally created in 1996
Rev 1. Updated for the 2000 Baseline incorporating the appropriate changes peculiar to the site model. The Changes were a result of project experience/input.
This Piping Trestle Model is based on a detailed estimate (LOG#284). The estimate was performed in the field by the field estimator. This model adds DD and G&A to the equipment and material and labor that was not part of the detailed estimate.
This model only transferred the dollar amount from the detail estimate, as requested by the project. For man-hours and craft mix, see "Remove 100-N Side HGP Pipe Trestle", estimate log #284. When inputting labor costs from the detailed estimate, DD and G&A were remove. The detail estimate (log # 284) was updated to reflect the rates noted on this page.

Currently in this Model:

1. Direct Distributable Rate = 18.45%
2. General & Administrative = 3.66%
3. Subcontractor Overhead and Profit does not apply to this D&D work. This D&D work is assumed to be direct ERC work.
4. Contingency Rate = turned off, calculated by Baseline Database.
5. The labor database used is locate @ E:\readwrit\2000Base\00Tables\LABR99. The ERC wages are dated 3/2/99 and the HSSA rates are dated 11/10/98.
6. The equipment database used is located @ E:\readwrit\2000Base\00Tables\EQ9799 (NAT97C with updated BHI equipment pool rate 3/2/99) entitled "Eq. Rate EP 1110-1-8, VIII, Sep97+B". The equipment rates were provided in the detailed estimate by the field estimator and are based on the above database.
7. Unit pricing database used is located @ E:\readwrit\2000Base\00Tables\NTA95A (with incorporation of quotes to BHI and actuals) entitled "1995 National Unit Price Book +B".

Special Note #1

To satisfy procedural requirements items 1,2,5,6,&7 are subject to update before running model and issuing final results.

Special Note #2

Project approval of model applies to model structure/productivity/work approach/methodology/material pricing/unit pricing/resources, etc. excluding items in Special Note #1 above.

Special Note #3

It is assumed that the drip legs are the only contaminated piping.

Special Note #4

It is assumed that the piping on the HGP side of the fence will be removed by others.

Special Note #5

It is assumed that all equipment, piping, structural steel, etc., against the 109-N Building south wall will be removed as part of this project.

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PROJECT NOTES

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Special Note #6
It is assumed that the removal of the radiological contaminated steam
trap-soil/french drain system are not part of this model.

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 SETTINGS PAGE 1

REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY	UOM

. HANFORD: ER PROGRAM	REFERENCE			

HANFORD: ER PROGRAM			1.0000	LS
	PRODUCTIVITY	12.0000 LS /		
	DURATION	0.0833		
ASBDURO Asbestos Removal Duration				
Per Estimate #284	N	(55.2500	* Multiply by	DAY
Hours per day	N	8.0000)	U Round Up	HR/DAY
	N	1.0000		

ASBDURO Asbestos Removal Duration			442.0000	HR
DURDIS0 Dismantling Activities Duration				
Per Estimate #284	N	(52.0000	* Multiply by	WK
Hours per week	N	40.0000)	* Multiply by	HR/WK
	N	1.0000		

DURDIS0 Dismantling Activities Duration			2080.0000	HR
DURPRE0 Pre-Decommissioning Duration				
EE/CA	N	(1008.0000	+ Add to	HRS
Action Memorandum	N	160.0000	+ Add to	HRS
RDR	N	520.0000	- Subtract Next	HRS
3 Week Adjustment	N	120.0000	+ Add to	HRS
Work Package Development	N	160.0000	- Subtract Next	HRS
2 Week Adjustment	N	80.0000	+ Add to	HRS
Readiness Evaluation	N	80.0000	+ Add to	HRS
Mobilization	N	40.0000	+ Add to	HRS
	N	0.0000)	U Round Up	
	N	1.0000		

DURPRE0 Pre-Decommissioning Duration			1768.0000	HR
DURPST0 Post-Decommissioning Duration				
Final D&D Report	N	(0.0000	N None	
	N	200.0000)		

DURPST0 Post-Decommissioning Duration			200.0000	HR
DURTTL0 Total Project Duration				
	N	(0.0000	N None	

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 SETTINGS PAGE 2

. HANFORD: ER PROGRAM		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
Pre-Decommissioning Duration	N	(0.0000	N None		
Post-Decommissioning Duration	W DURPRE0	(1768.0000	+ Add to		HR
Convert crew-hrs to months	N DURPST0)	200.0000	/ Divide by		HR
Adjustment Factor of .33	N		168.0000	* Multiply by		HR/MO
	N		0.3300	N None		
	N		0.0000	N None		

DURTTLO Total Project Duration						3.8657 MO
0 HANFORD: ER PROGRAM						1.0000 EA
01 Mobilization & Preparatory Work						1.0000 LS
01:02 Mobilize Personnel						1.0000 LS
02 Monitoring, Sampling & Analysis						1.0000 LS
02:03.03 Asbestos Air Monitoring						442.0000 HR
	W ASBDURO		442.0000 HR		1.0000	442.0000 HR
	PRODUCTIVITY		1.0000 HR /HR			
	DURATION		442.0000 HR			
1	D & D WORKER - 0.25 EA.	D	442.0000 HR	* Multiply by	0.2500	110.5000 HR
2	Air Monitor - 2 EA.	D	442.0000 HR	* Multiply by	2.0000	884.0000 HR
3	Level B/Level C Consumables	D	442.0000 HR	* Multiply by	0.2500	110.5000 HR
4	SMALL TOOLS - 0.25 EA.	D	442.0000 HR	* Multiply by	0.2500	110.5000 HR
17 Decon and Decommissioning (D&D)						1.0000 LS
17:01 Pre-Decommissioning Operations						1.0000 LS
17:01.03 Haz Mat'l & Radioactivity Survey						1.0000 LS
17:01.03.01 Sampling & Analysis Plan						360.0000 HR
	PRODUCTIVITY		1.0000 HR /HR			
	DURATION		360.0000 HR			
1	ERC HP & CHARACTERIZATION ENGR	D	360.0000 HR	* Multiply by	0.2000	72.0000 HR
2	ERC PROJECT MANAGEMENT	D	360.0000 HR	* Multiply by	0.0500	18.0000 HR
3	ERC ADMIN. SERVICES - 0.05 EA.	D	360.0000 HR	* Multiply by	0.0500	18.0000 HR

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 17:01.03.03. Characterization Report
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17:01.03.03. Characterization Report		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
17:01.03.03 Characterization Report						120.0000 HR
	PRODUCTIVITY		1.0000 HR /HR			
	DURATION		120.0000 HR			
1	ERC HP & CHARACTERIZATION ENGR	D	120.0000 HR	* Multiply by	1.0000	120.0000 HR
2	ERC PROJECT MANAGEMENT	D	120.0000 HR	* Multiply by	0.2500	30.0000 HR
3	ERC ADMIN SERVICES - 0.25 EA.	D	120.0000 HR	* Multiply by	0.2500	30.0000 HR
17:91.01.01 Analysis and Preparation						120.0000 HR
	PRODUCTIVITY		1.0000 HR /HR			
	DURATION		120.0000 HR			
01	ERC SAFETY AND HEALTH - 1 EA	D	120.0000 HR	* Multiply by	1.0000	120.0000 HR
02	ERC ENVIRONMENTAL ENG - 2 EA	D	120.0000 HR	* Multiply by	2.0000	240.0000 HR
03	ERC ADMINISTRATIVE SERCIES-1 EA	D	120.0000 HR	* Multiply by	1.0000	120.0000 HR
17:91.01.02 Final Analysis Review and						80.0000 HR
	PRODUCTIVITY		1.0000 HR /			
	DURATION		80.0000			
01	ERC ENVIRONMENTAL ENG - 2 EA	D	80.0000	* Multiply by	2.0000	160.0000 HR
02	ERC PROJECT MANAGEMENT - .25 EA	D	80.0000	* Multiply by	0.2500	20.0000 HR
03	ERC ADMINISTRATIVE SERVICES	D	80.0000	* Multiply by	1.0000	80.0000 HR
91:01 Project Management, Pre/Post						1.0000 LS
1	ERC PROJECT MANAGER - 0.05 EA.	W DURTTLO	3.8657 MO	* Multiply by	0.0500	0.1933 MO
2	ERC PROJECT ENGINEER - 0.1 EA.	W DURTTLO	3.8657 MO	* Multiply by	0.1000	0.3866 MO
3	ERC TASK LEAD - 0.1 EA	W DURTTLO	3.8657 MO	* Multiply by	0.1000	0.3866 MO
4	ERC LEAD ENGINEER - 0.8 EA.	W DURTTLO	3.8657 MO	* Multiply by	0.8000	3.0926 MO
5	ERC AREA SUPERINTENDENT	W DURTTLO	3.8657 MO	* Multiply by	0.1000	0.3866 MO
6	ERC SITE SUPERINTENDENT	W DURDIS0	2080.0000 HR	/ Divide by	336.0000	6.1905 MO
7	ERC ESTIMATOR - 0.05 EA.	W DURTTLO	3.8657 MO	* Multiply by	0.0500	0.1933 MO
8	ERC PLAN/SCHED ENGR - 0.15 EA.	W DURTTLO	3.8657 MO	* Multiply by	0.1500	0.5799 MO
9	ERC COST ENGR - 0.3 EA.	W DURTTLO	3.8657 MO	* Multiply by	0.3000	1.1597 MO
10	ERC SAFETY AND HEALTH	W DURTTLO	3.8657 MO	* Multiply by	0.2500	0.9664 MO
11	ERC ADMINISTRATIVE SERVICES	W DURTTLO	3.8657 MO	* Multiply by	0.2500	0.9664 MO
12	ERC PROCUREMENT - 0.1 EA.	W DURTTLO	3.8657 MO	* Multiply by	0.1000	0.3866 MO
13	ERC QUALITY ASSURANCE	W DURTTLO	3.8657 MO	* Multiply by	0.0500	0.1933 MO
14	ERC REGULATORY SUPPORT	W DURTTLO	3.8657 MO	* Multiply by	0.0500	0.1933 MO
91:	Rolls of Film	W DURDIS0	2080.0000 HR	/ Divide by	168.0000	12.3810 EA
XXX:	Total Project Duration	W DURTTLO	3.8657 MO	* Multiply by	1.0000	3.8657 MO
XXX:	Clean Landfill Volume	W QTYLND0	0.0000	* Multiply by	1.0000	1043.0000 LCY

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XXX:YY. Additional Quantities
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XXX:YY. Additional Quantities	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
XXX: Salvaged/Recycled Volume	W QTYSAL0	0.0000	* Multiply by	1.0000	46.0000 LCY
XXX: Total Volume	W QTYTOT0	0.0000	* Multiply by	1.0000	1089.0000 LCY
XXX: Asbestos Volume	W ASBQTY0	0.0000	* Multiply by	1.0000	8797.0000 CF
XXX: Pipe Volume	W PEDVOL0	0.0000	* Multiply by	1.0000	19353.0000 CF
XXX: Facility Steel Volume	W VOLSTL0	0.0000	* Multiply by	1.0000	46.0000 CY

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 01. Mobilization & Preparatory Work

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01:02. Mobilize Personnel		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
01. Mobilization & Preparatory Work										
01:02. Mobilize Personnel										
USR	Total Labor (per Estimate #284)	1.00			7645.00 7,645	0.00 0	0.00 0	0.00 0	7645.00 7,645	7645.00
TOTAL Mobilize Personnel					7,645	0	0	0	7,645	

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 01. Mobilization & Preparatory Work

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01:04. Setup/Prepare Work Area	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

01:04. Setup/Prepare Work Area									
01:04.01. Fab Water Manifolds									
USR Total Labor-per Estimate #284	1.00			4210.00	0.00	0.00	0.00	4210.00	
				4,210	0	0	0	4,210	4210.00
				-----	-----	-----	-----	-----	
TOTAL Fab Water Manifolds				4,210	0	0	0	4,210	

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01:04. Setup/Prepare Work Area		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
01:04.02. Clear Area Below Trestle										
USR	Total Labor-per Estimate #284				24895.00	0.00	0.00	0.00	24895.00	
		1.00			24,895	0	0	0	24,895	24895.00
TOTAL Clear Area Below Trestle					24,895	0	0	0	24,895	

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 01. Mobilization & Preparatory Work

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01:04. Setup/Prepare Work Area		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
01:04.03. Verify Zero Energy										
USR	Total Labor-per Estimate #284	1.00			3979.00 3,979	0.00 0	0.00 0	0.00 0	3979.00 3,979	3979.00
TOTAL Verify Zero Energy					3,979	0	0	0	3,979	

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 01. Mobilization & Preparatory Work

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01:04. Setup/Prepare Work Area	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

01:04.04. Relocate Fire Hydrant									
Remove Fire Hydrant - Isolate - Relocate									
Note: Two fire hydrants and two PIV's are in the immediate work area and could be broken off by hvy. equip. or crane									
USR	Total Labor-per Estimate #284			7173.00	0.00	0.00	0.00	7173.00	
		1.00		7,173	0	0	0	7,173	7173.00
				-----	-----	-----	-----	-----	
	TOTAL Relocate Fire Hydrant			7,173	0	0	0	7,173	
				-----	-----	-----	-----	-----	
	TOTAL Setup/Prepare Work Area			40,257	0	0	0	40,257	
				-----	-----	-----	-----	-----	
	TOTAL Mobilization & Preparatory Work			47,902	0	0	0	47,902	

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 02. Monitoring, Sampling & Analysis

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02:03. Air Monitoring and Sampling		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
02. Monitoring, Sampling & Analysis and Analysis										
02:03. Air Monitoring and Sampling										
02:03.03. Asbestos Air Monitoring										
Work to be Performed: Provide air monitoring services for asbestos removal operations.										
Output: Activity duration is equal to the total duration of asbestos removal operations.										
HAM	D & D WORKER - 0.25 EA.	110.50	HR	10715	38.56 4,261	0.00 0	0.00 0	0.00 0	38.56 4,261	38.56
HEH	Air Monitor - 2 EA.	884.00	HR	Y1	0.00 0	10.00 8,840	0.00 0	0.00 0	10.00 8,840	10.00
HEH	Level B/Level C Consumables - 0.25 EA.	110.50	HR	Z5	0.00 0	15.00 1,658	0.00 0	0.00 0	15.00 1,658	15.00
BHI	SMALL TOOLS - 0.25 EA.	110.50	HR	XMIXX020	0.00 0	1.57 173	0.00 0	0.00 0	1.57 173	1.57
TOTAL Asbestos Air Monitoring		442.00	HR		4,261	10,671	0	0	14,932	33.78
TOTAL Air Monitoring and Sampling					4,261	10,671	0	0	14,932	

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 02. Monitoring, Sampling & Analysis

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02:04. Sampling Rad Contaminated Media		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
02:04. Sampling Rad Contaminated Media										
02:04.08. Sludge and Solid Waste										
BHI	Analyze LLW Sample - Mobile Lab Quantity is an allowance.	100.00	EA		0.00 0	0.00 0	0.00 0	1100.00 110,000	1100.00 110,000	1100.00
BHI	Analyze LLW Sample - Off-site Lab	10.00	EA		0.00 0	0.00 0	0.00 0	2000.00 20,000	2000.00 20,000	2000.00
TOTAL Sludge and Solid Waste					0	0	0	130,000	130,000	
TOTAL Sampling Rad Contaminated Media					0	0	0	130,000	130,000	
TOTAL Monitoring, Sampling & Analysis					4,261	10,671	0	130,000	144,932	

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 17. Decon and Decommissioning (D&D)

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17:01. Pre-Decommissioning Operations										
		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17. Decon and Decommissioning (D&D)										
17:01. Pre-Decommissioning Operations										
17:01.01. Prepare Decommissioning Plan										
17:01.01.01. EE/CA										
Notes:										
The EE/CA is a DOE document that is addressed to the lead regulatory agency to study various removal actions and disposal alternatives. The document compares cost, environmental consequences and states what ARARs (Applicable or Relevant and Appropriate Requirements) will be addressed for each alternative.										
ERC	ERC LEAD ENGINEER	1.50	HR	31000	65.59 98	0.00 0	0.00 0	0.00 0	65.59 98	65.59
ERC	ERC PROJECT MANAGEMENT	1.50	HR	51000	82.82 124	0.00 0	0.00 0	0.00 0	82.82 124	82.82
ERC	ERC ENVIRONMENTAL ENGINEER	0.70	HR	55000	30.05 21	0.00 0	0.00 0	0.00 0	30.05 21	30.05
USR	ERC ADMINISTRATION	1.50	HR	55000	30.05 45	0.00 0	0.00 0	0.00 0	30.05 45	30.05
USR	ERC CHARACTERIZATION ENGINEER	3.00	HR	55000	30.05 90	0.00 0	0.00 0	0.00 0	30.05 90	30.05
USR	ERC REGULATORY ENGINEER	5.50	HR	55000	30.05 165	0.00 0	0.00 0	0.00 0	30.05 165	30.05
TOTAL EE/CA					544	0	0	0	544	

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17:01. Pre-Decommissioning Operations									
	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:01.01.02. Action Memorandum									
Notes:									
The Action Memorandum is a document generated by the lead regulatory agency, in response to a specific EE/CA, stating the selected alternative with its specific ARARs.									
ERC	ERC REGULATORY ENGINEER			65.59	0.00	0.00	0.00	65.59	
		2.00	HR 31000	131	0	0	0	131	65.59
				-----	-----	-----	-----	-----	
	TOTAL Action Memorandum			131	0	0	0	131	

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17:01. Pre-Decommissioning Operations		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:01.01.03. Readiness Evaluation										
Notes:										
This item is used to document that the project task team and management have completed/addressed all relevant items before conducting the task.										
ERC	ERC LEAD ENGINEER	6.00	HR	32000	68.81 413	0.00 0	0.00 0	0.00 0	68.81 413	68.81
ERC	ERC RAD CONTROL ENGINEER	2.40	HR	31000	65.59 157	0.00 0	0.00 0	0.00 0	65.59 157	65.59
ERC	ERC QUALITY ASSURANCE	4.00	HR	52000	69.61 278	0.00 0	0.00 0	0.00 0	69.61 278	69.61
ERC	ERC PROJECT MANAGEMENT	2.40	HR	51000	82.82 199	0.00 0	0.00 0	0.00 0	82.82 199	82.82
ERC	ERC SAFTY AND HEALTH	2.40	HR	58000	60.01 144	0.00 0	0.00 0	0.00 0	60.01 144	60.01
ERC	ERC FIELD SUPPORT	6.00	HR	53000	51.55 309	0.00 0	0.00 0	0.00 0	51.55 309	51.55
ERC	ERC AREA SUPERINTENDENT	1.00	HR	53000	51.55 52	0.00 0	0.00 0	0.00 0	51.55 52	51.55
ERC	ERC ADMINISTRATAIVE SERVICIES	1.00	HR	55000	30.05 30	0.00 0	0.00 0	0.00 0	30.05 30	30.05
TOTAL Readiness Evaluation					1,582	0	0	0	1,582	

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17:01. Pre-Decommissioning Operations										
		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:01.01.04. Hazard Classification										
Note:										
The Hazard Classification document calculates the total hazardous and radiological inventory and then compares those values to the specific sited quantities for each isotope or material.										
ERC	ERC LEAD ENGINEER	40.00	HR	32000	68.81 2,752	0.00 0	0.00 0	0.00 0	68.81 2,752	68.81
ERC	ERC ENVIRONMENTAL ENGINEER	20.00	HR	31000	65.59 1,312	0.00 0	0.00 0	0.00 0	65.59 1,312	65.59
TOTAL Hazard Classification					4,064	0	0	0	4,064	

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17:01. Pre-Decommissioning Operations	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:01.01.05. Plant Force Work Review (PFWR)									
Note:									
This documentation is needed to determine what scope within a project will									
be performed by established union plant forces and/or what will be									
subcontracted.									
ERC	ERC FIELD SUPPORT			51.55	0.00	0.00	0.00	51.55	
		8.00	HR 53000	412	0	0	0	412	51.55
ERC	ERC LEAD ENGINEER			68.81	0.00	0.00	0.00	68.81	
		0.40	HR 32000	28	0	0	0	28	68.81
TOTAL Plant Force Work Review (PFWR)				440	0	0	0	440	

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17:01. Pre-Decommissioning Operations			QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:01.01.06. Remediation Schedule and Est.											
Note:											
This activity is developed by project specific engineers, field support personnel, and estimators to estimate the cost and duration for the remediation portion of the project.											
ERC	ERC ESTIMATOR		5.00	HR	21000	57.36 287	0.00 0	0.00 0	0.00 0	57.36 287	57.36
ERC	ERC LEAD ENGINEER		5.00	HR	32000	68.81 344	0.00 0	0.00 0	0.00 0	68.81 344	68.81
ERC	ERC FIELD SUPPORT		5.00	HR	53000	51.55 258	0.00 0	0.00 0	0.00 0	51.55 258	51.55
ERC	ERC COST/SCHEDULING ENGINEER		5.00	HR	21000	57.36 287	0.00 0	0.00 0	0.00 0	57.36 287	57.36
TOTAL Remediation Schedule and Est.						1,175	0	0	0	1,175	

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17:01. Pre-Decommissioning Operations	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:01.01.07. Biological Resource Review									
Note:									
This activity consists of studies to determine if there are potential effects to biological/ecological sensitive items on the project/vicinity.									
ERC	ERC ENVIRONMENTAL ENGINEER	15.00	HR	31000	65.59 984	0.00 0	0.00 0	65.59 984	65.59
ERC	ERC LEAD ENGINEER	7.00	HR	32000	68.81 482	0.00 0	0.00 0	68.81 482	68.81
				-----	-----	-----	-----	-----	-----
TOTAL Biological Resource Review					1,466	0	0	1,466	

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17:01. Pre-Decommissioning Operations	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:01.01.08. Cultural Resource Review									
Note:									
This activity consists of studies to determine if there are potential effects to culturally sensitive items on the project/vicinity.									
ERC	ERC LEAD ENGINEER			68.81	0.00	0.00	0.00	68.81	
		7.00	HR 32000	482	0	0	0	482	68.81
ERC	ERC ENVIRONMENTAL ENGINEER			69.61	0.00	0.00	0.00	69.61	
		15.00	HR 35000	1,044	0	0	0	1,044	69.61
TOTAL Cultural Resource Review				1,526	0	0	0	1,526	

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17:01. Pre-Decommissioning Operations			QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:01.01.09. Work Package Development											
Note:											
This item provides a descriptive working document of how work will be performed in the field.											
ERC	ERC FIELD SUPPORT		75.00	HR	53000	51.55 3,866	0.00 0	0.00 0	0.00 0	51.55 3,866	51.55
ERC	ERC SAFTY AND HEALTH		13.00	HR	58000	60.01 780	0.00 0	0.00 0	0.00 0	60.01 780	60.01
ERC	ERC RAD CONTROL ENGINEER		13.00	HR	31000	65.59 853	0.00 0	0.00 0	0.00 0	65.59 853	65.59
ERC	ERC LEAD ENGINEER		7.00	HR	32000	68.81 482	0.00 0	0.00 0	0.00 0	68.81 482	68.81
TOTAL Work Package Development						5,981	0	0	0	5,981	

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17:01. Pre-Decommissioning Operations			QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:01.01.10. Waste Designation											
Note:											
This document uses waste catagories and sample and survey data to determine											
a waste profile to meet ERDF waste acceptance criteria.											
ERC	ERC LEAD ENGINEER		5.00	HR	32000	68.81 344	0.00 0	0.00 0	0.00 0	68.81 344	68.81
ERC	ERC FIELD SUPPORT		20.00	HR	53000	51.55 1,031	0.00 0	0.00 0	0.00 0	51.55 1,031	51.55
TOTAL Waste Designation						1,375	0	0	0	1,375	

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17:01. Pre-Decommissioning Operations			QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:01.01.11. Waste Profile											
Note:											
This document uses sample and survey data to determine what waste streams meet the acceptance criteria of a particular disposal facility.											
ERC	ERC LEAD ENGINEER		5.00	HR	32000	68.81 344	0.00 0	0.00 0	0.00 0	68.81 344	68.81
ERC	ERC FIELD SUPPORT		20.00	HR	53000	51.55 1,031	0.00 0	0.00 0	0.00 0	51.55 1,031	51.55
TOTAL Waste Profile						-----	-----	-----	-----	-----	-----
						1,375	0	0	0	1,375	

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17:01. Pre-Decommissioning Operations	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:01.01.12. HASP (Health & Safety Plan)									
Note:									
This document is used in the field to address various safety concerns, including worker training, hazards identification, PPE (Personal Protective Equipment), facility conditions, etc.									
ERC	ERC SAFTY AND HEALTH	40.00	HR 58000	60.01 2,400	0.00 0	0.00 0	0.00 0	60.01 2,400	60.01
ERC	ERC FIELD SUPPORT	15.00	HR 53000	51.55 773	0.00 0	0.00 0	0.00 0	51.55 773	51.55
TOTAL HASP (Health & Safety Plan)				3,174	0	0	0	3,174	

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17:01. Pre-Decommissioning Operations		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:01.01.13. Site Specific Waste Mgmt. Inst. (SSWMI) Site Specific Waste Management Instructions										
Note: This documentaiton provides guidance on how various waste streams will be managed through disposal.										
ERC	ERC FIELD SUPPORT	15.00	HR	53000	51.55 773	0.00 0	0.00 0	0.00 0	51.55 773	51.55
TOTAL Site Specific Waste Mgmt. Inst.					773	0	0	0	773	

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17:01. Pre-Decommissioning Operations	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST	

17:01.01.14. BARCT Determination/Acceptance (Best Available Radionuclide Control Technology)										
Note: This item takes into consideration the facility's radionuclide inventory and determines what the unabated off-site dose would be for field activities that have potential to disturb the inventory.										
ERC	ERC LEAD ENGINEER	20.00	HR	32000	68.81 1,376	0.00 0	0.00 0	0.00 0	68.81 1,376	68.81
ERC	ERC REGULATORY ENGINEER	10.00	HR	35000	69.61 696	0.00 0	0.00 0	0.00 0	69.61 696	69.61
ERC	ERC PROJECT MANAGEMENT	5.00	HR	51000	82.82 414	0.00 0	0.00 0	0.00 0	82.82 414	82.82
ERC	ERC ENVIRONMENTAL ENGINEER	25.00	HR	35000	69.61 1,740	0.00 0	0.00 0	0.00 0	69.61 1,740	69.61
TOTAL BARCT Determination/Acceptance					4,227	0	0	0	4,227	

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17:01. Pre-Decommissioning Operations			QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:01.01.15. Removal Design Report (RDR)											
Note:											
The Removal Design Report is a document that addresses the ARARS set by the action Memorandum, acts as a design report/project plan, and acts as the project management plan for a specific project under an Action Memorandum.											
ERC	ERC LEAD ENGINEER		180.00	HR	32000	68.81 12,386	0.00 0	0.00 0	0.00 0	68.81 12,386	68.81
ERC	ERC ENVIRONMENTAL ENGINEER		25.00	HR	35000	69.61 1,740	0.00 0	0.00 0	0.00 0	69.61 1,740	69.61
ERC	ERC REGULATORY SUPPORT		30.00	HR	35000	69.61 2,088	0.00 0	0.00 0	0.00 0	69.61 2,088	69.61
ERC	ERC FIELD SUPPORT		65.00	HR	53000	51.55 3,351	0.00 0	0.00 0	0.00 0	51.55 3,351	51.55
ERC	ERC QUALITY ASSURANCE		12.00	HR	52000	69.61 835	0.00 0	0.00 0	0.00 0	69.61 835	69.61
ERC	ERC SAFTY AND HEALTH		30.00	HR	58000	60.01 1,800	0.00 0	0.00 0	0.00 0	60.01 1,800	60.01
ERC	ERC ADMINISTRATIVE SERVICIES		10.00	HR	55000	30.05 301	0.00 0	0.00 0	0.00 0	30.05 301	30.05
TOTAL Removal Design Report (RDR)						22,501	0	0	0	22,501	
TOTAL Prepare Decommissioning Plan						50,334	0	0	0	50,334	

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17:01. Pre-Decommissioning Operations	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:01.02. Rad. Work Permit (RWP)/ Tech. Assessment (TA)									
Note: The Radiological Work Permit addresses how radiation surveys shall be conducted for certain activities. The Technical Assessment provides a brief radiological history of the facility which is then used to write the RWP.									
ERC	ERC RAD CONTROL ENGINEER			65.59	0.00	0.00	0.00	65.59	
		30.00	HR 31000	1,968	0	0	0	1,968	65.59
				-----	-----	-----	-----	-----	
	TOTAL Rad. Work Permit (RWP)/ Tech.			1,968	0	0	0	1,968	

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17:01. Pre-Decommissioning Operations		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:01.03. Haz Mat'l & Radioactivity Survey and Development of Exposure Controls										
17:01.03.01. Sampling & Analysis Plan										
Output:										
Duration for this activity is 45 crew days.										
M BHI	Allowance for Printing and Copying	1.00	LS		0.00 0	0.00 0	324.00 324	0.00 0	324.00 324	324.00 324.00
ERC	ERC HP & CHARACTERIZATION ENGR - 0.2 EA.	72.00	HR	31000	65.59 4,722	0.00 0	0.00 0	0.00 0	65.59 4,722	65.59 65.59
ERC	ERC PROJECT MANAGEMENT - 0.05 EA.	18.00	HR	51000	82.82 1,491	0.00 0	0.00 0	0.00 0	82.82 1,491	82.82 82.82
ERC	ERC ADMIN. SERVICES - 0.05 EA.	18.00	HR	55000	30.05 541	0.00 0	0.00 0	0.00 0	30.05 541	30.05 30.05
TOTAL Sampling & Analysis Plan		360.00	HR		6,754	0	324	0	7,078	19.66

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17:01. Pre-Decommissioning Operations		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:01.03.03. Characterization Report										
Work to be Performed:										
Prepare a characterization report specific for the pipe trestle. The report will include an executive summary, description of the piping and trestle, survey parameters, trestle/piping illustrations, survey results, instrument information, and isotopic analysis. It is assumed that the report will contain some degree of "boilerplate" material as well as piping/trestle specific information. This includes review and revision of the Characterization Report.										
Output:										
Duration for this activity is estimated at 120 crew hours.										
ERC	ERC HP & CHARACTERIZATION ENGR - 1 EA.	120.00	HR	31000	65.59 7,871	0.00 0	0.00 0	0.00 0	65.59 7,871	65.59
ERC	ERC PROJECT MANAGEMENT - 0.25 EA.	30.00	HR	51000	82.82 2,485	0.00 0	0.00 0	0.00 0	82.82 2,485	82.82
ERC	ERC ADMIN SERVICES - 0.25 EA.	30.00	HR	55000	30.05 902	0.00 0	0.00 0	0.00 0	30.05 902	30.05
M BHI	Allowance for Printing and Copying	1.00	LS		0.00 0	0.00 0	324.00 324	0.00 0	324.00 324	324.00
TOTAL Characterization Report		120.00	HR		11,257	0	324	0	11,581	96.51
TOTAL Haz Mat'l & Radioactivity Survey					18,011	0	648	0	18,659	
TOTAL Pre-Decommissioning Operations					70,313	0	648	0	70,961	

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17:02. Equipment Rental		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:02. Equipment Rental										
See Estimate #284 for the List of Equipment.										
Note: Cost includes the setup and breakdown of two cranes.										
USR	Total Equipment Rental - per				0.00	271000.00	0.00	0.00	271000.00	
	Estimate #284	1.00			0	271,000	0	0	271,000	271000.00
	TOTAL Equipment Rental				0	271,000	0	0	271,000	

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17:03. Consummables		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:03. Consummables										
See Estimate #284 for the List of Consummables										
USR	Total Consummables - per				0.00	0.00	194400.00	0.00	194400.00	
	Estimate #284	1.00			0	0	194,400	0	194,400	194400.00
	TOTAL Consummables				0	0	194,400	0	194,400	

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17:04. Dismantling Activities	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04. Dismantling Activities									
17:04.01. Dismantle Pipe/Trestle Structure									
17:04.01.01. Pre-Dismantling Activities									
17:04.01.01.01. Remove Drip Legs									
Note:Cost includes removing the asbestos from the lines and removing the piping. There are 50 drip legs and each is approx. 26 ft. in length.									
USR	Total Labor-per Estimate #284			103408.00	0.00	0.00	0.00	103408.00	
		1.00		103,408	0	0	0	103,408	103408.00
				-----	-----	-----	-----	-----	
	TOTAL Remove Drip Legs			103,408	0	0	0	103,408	

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17:04. Dismantling Activities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:04.01.01.02. Decon/Fix Rad on Concrete Pads										
Note: There are five (5) concrete pads. Each pad is 10'X 28'.										
USR	Total Labor-per Estimate #284	1.00			20377.00 20,377	0.00 0	0.00 0	0.00 0	20377.00 20,377	20377.00
TOTAL Decon/Fix Rad on Concrete Pads					20,377	0	0	0	20,377	
TOTAL Pre-Dismantling Activities					123,785	0	0	0	123,785	

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17:04. Dismantling Activities	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04.01.02. Remove Pipe									
17:04.01.02.01. Cut Pipe - Section Cuts									
17:04.01.02.01.01. Erect Scaffold									
Two Area's									
Note:The scaffold is approx. 30 ft high. The last 15 ft or so is around and in 12 pipes - 8-38"ID, 2-24"ID and 2-12"ID.									
USR Total Labor-per Estimate #284				13522.00	0.00	0.00	0.00	13522.00	
	1.00			13,522	0	0	0	13,522	13522.00
				-----	-----	-----	-----	-----	
TOTAL Erect Scaffold				13,522	0	0	0	13,522	

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17:04. Dismantling Activities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:04.01.02.01.02. Remove Asbestos for Pipe Cuts Two Area's										
Note:The Asbestos will be removed from 12 pipes (in each area) of different sizes. Eight are 38"ID, two are 24"ID and the other two are 12"ID.										
USR	Total Labor-per Estimate #284				16468.00	0.00	0.00	0.00	16468.00	
		1.00			16,468	0	0	0	16,468	16468.00
	TOTAL Remove Asbestos for Pipe Cuts				16,468	0	0	0	16,468	

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17:04. Dismantling Activities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:04.01.02.01.03. Cut Pipe										
Two Areas										
Note: Twelve pipes in each area.										
(8-38"ID, 2-24"ID, & 2-12"ID)										
USR	Total Labor-per Estimate #284				8406.00	0.00	0.00	0.00	8406.00	
		1.00			8,406	0	0	0	8,406	8406.00
					-----	-----	-----	-----	-----	
	TOTAL Cut Pipe				8,406	0	0	0	8,406	

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17:04. Dismantling Activities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:04.01.02.01.04. Remove Scaffold										
USR	Total Labor-per Estimate #284	1.00			5590.00	0.00	0.00	0.00	5590.00	
					5,590	0	0	0	5,590	5590.00
	TOTAL Remove Scaffold				5,590	0	0	0	5,590	
	TOTAL Cut Pipe - Section Cuts				43,986	0	0	0	43,986	

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17:04. Dismantling Activities	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04.01.02.02. Lower Pipe from Trestle									
17:04.01.02.02.01. Pipe Section #1									
Remove Trestle Bracing and Lower Pipe - Section #1									
Note:For pipe section 1, the pipe is cut in half (each pipe will have two pieces) for a total of 24 pipes to be removed. 16-38"ID, 4-24"ID & 4-12"ID									
USR	Total Labor-per Estimate #284			65636.00	0.00	0.00	0.00	65636.00	
		1.00		65,636	0	0	0	65,636	65636.00
				-----	-----	-----	-----	-----	
	TOTAL Pipe Section #1			65,636	0	0	0	65,636	

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17:04. Dismantling Activities	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04.01.02.02.02. Pipe Section #2									
Remove Trestle Bracing and Lower Pipe - Section #2									
Note: A total of 12 pipes - 8-38"ID, 2-24"ID, & 2-12"ID.									
USR	Total Labor-per Estimate #284			33007.00	0.00	0.00	0.00	33007.00	
		1.00		33,007	0	0	0	33,007	33007.00
				-----	-----	-----	-----	-----	
	TOTAL Pipe Section #2			33,007	0	0	0	33,007	

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17:04. Dismantling Activities									

	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04.01.02.02.03. Pipe Section #3									
Remove Trestle Bracing and Lower Pipe - Section #3									
Note: A total of 12 pipes - 8-38"ID, 2-24"ID, & 2-12"ID.									
USR	Total Labor-per Estimate #284			33007.00	0.00	0.00	0.00	33007.00	
		1.00		33,007	0	0	0	33,007	33007.00
				-----	-----	-----	-----	-----	
	TOTAL Pipe Section #3			33,007	0	0	0	33,007	

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17:04. Dismantling Activities	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04.01.02.02.04. Pipe Section #4									
Remove Trestle Bracing and Lower Pipe - Section #4									
Note: A total of 12 pipes - 8-38"ID, 2-24"ID, & 2-12"ID.									
USR	Total Labor-per Estimate #284			33007.00	0.00	0.00	0.00	33007.00	
		1.00		33,007	0	0	0	33,007	33007.00
				-----	-----	-----	-----	-----	
	TOTAL Pipe Section #4			33,007	0	0	0	33,007	

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17:04. Dismantling Activities									

	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04.01.02.02.05. Pipe Section #5									
Remove Trestle Bracing and Lower Pipe - Section #5.									
Note: A total of 12 pipes - 8-38"ID, 2-24"ID, & 2-12"ID.									
USR	Total Labor-per Estimate #284			33007.00	0.00	0.00	0.00	33007.00	
		1.00		33,007	0	0	0	33,007	33007.00
				-----	-----	-----	-----	-----	
	TOTAL Pipe Section #5			33,007	0	0	0	33,007	

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17:04. Dismantling Activities									

	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04.01.02.02.06. Pipe Section #6									
Remove Trestle Bracing and Lower Pipe - Section #6.									
Note: A total of 12 pipes - 8-38"ID, 2-24"ID, & 2-12"ID.									
USR	Total Labor-per Estimate #284			33007.00	0.00	0.00	0.00	33007.00	
		1.00		33,007	0	0	0	33,007	33007.00
				-----	-----	-----	-----	-----	
	TOTAL Pipe Section #6			33,007	0	0	0	33,007	

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17:04. Dismantling Activities	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04.01.02.02.07. Pipe Section #7									
Remove Trestle Bracing and Lower Pipe - Section #7									
USR	Total Labor-per Estimate #284			196150.00	0.00	0.00	0.00	196150.00	
		1.00		196,150	0	0	0	196,150	196150.00
				-----	-----	-----	-----	-----	
	TOTAL Pipe Section #7			196,150	0	0	0	196,150	

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17:04. Dismantling Activities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:04.01.02.02.08. Pipe Section #8										
Remove Trestle Bracing and Lower Pipe - Section #8										
USR	Total Labor-per Estimate #284	1.00			120018.00	0.00	0.00	0.00	120018.00	120018.00
					120,018	0	0	0	120,018	
	TOTAL Pipe Section #8				120,018	0	0	0	120,018	
	TOTAL Lower Pipe from Trestle				546,839	0	0	0	546,839	
	TOTAL Remove Pipe				590,825	0	0	0	590,825	

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17:04. Dismantling Activities	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04.01.03. Remove Structure									
17:04.01.03.01. Section #1 thur #6									
USR	Total Labor-per Estimate #284			69925.00	0.00	0.00	0.00	69925.00	
		1.00		69,925	0	0	0	69,925	69925.00
				-----	-----	-----	-----	-----	
TOTAL Section #1 thur #6				69,925	0	0	0	69,925	

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17:04. Dismantling Activities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:04.01.03.02. Sections #7 and #8										
USR	Total Labor-per Estimate #284				38847.00	0.00	0.00	0.00	38847.00	
		1.00			38,847	0	0	0	38,847	38847.00
TOTAL Sections #7 and #8					38,847	0	0	0	38,847	
TOTAL Remove Structure					108,772	0	0	0	108,772	
TOTAL Dismantle Pipe/Trestle Structure					823,382	0	0	0	823,382	

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17:04. Dismantling Activities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:04.02. Remove and Package Asbestos										
17:04.02.01. Stage Pipe Sections										
USR	Total Labor-per Estimate #284	1.00			53424.00	0.00	0.00	0.00	53424.00	
					53,424	0	0	0	53,424	53424.00
					-----	-----	-----	-----	-----	
	TOTAL Stage Pipe Sections				53,424	0	0	0	53,424	

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17:04. Dismantling Activities	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04.02.02. Remove Asbestos (#1-#6)									
Remove Asbestos from Pipe Sections #1 thru #6 - 11,700 LF									
USR	Total Labor-per Estimate #284			205260.00	0.00	0.00	0.00	205260.00	
		1.00		205,260	0	0	0	205,260	205260.00
				-----	-----	-----	-----	-----	
	TOTAL Remove Asbestos (#1-#6)			205,260	0	0	0	205,260	

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17:04. Dismantling Activities	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04.02.03. Load Asbestos (#1-#6)									
Load Asbestos into Dumpster - for Pipe Sections #1 thur #6									
USR	Total Labor-per Estimate #284			6743.00	0.00	0.00	0.00	6743.00	
		1.00		6,743	0	0	0	6,743	6743.00
				-----	-----	-----	-----	-----	
	TOTAL Load Asbestos (#1-#6)			6,743	0	0	0	6,743	

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17:04. Dismantling Activities	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04.02.04. Remove Asbestos (#7 & #8)									
Remove Asbestos from Pipe Sections #7 and #8.									
USR	Total Labor-per Estimate #284			23861.00	0.00	0.00	0.00	23861.00	
		1.00		23,861	0	0	0	23,861	23861.00
				-----	-----	-----	-----	-----	
	TOTAL Remove Asbestos (#7 & #8)			23,861	0	0	0	23,861	

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17:04. Dismantling Activities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:04.02.05. Load Asbestos - #7 & #8										
Load Asbestos into Dumpster - Pipe Sections #7 and #8										
Note: This section was not included in Estimate #284. This is based on loading asbestos into dumpster for pipe sections #1 thur #6.										
USR	Total Labor				2167.00	0.00	0.00	0.00	2167.00	
		1.00			2,167	0	0	0	2,167	2167.00
TOTAL Load Asbestos - #7 & #8					2,167	0	0	0	2,167	
TOTAL Remove and Package Asbestos					291,455	0	0	0	291,455	
TOTAL Dismantling Activities					1,114,837	0	0	0	1,114,837	

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17:90. Recycle Waste		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:90. Recycle Waste										
17:90.02. Trestle Structure										
Prep and Load Trestle Steel for Scrap Dealer.										
USR	Total Labor-per Estimate #284	1.00			73733.00	0.00	0.00	0.00	73733.00	
					73,733	0	0	0	73,733	73733.00
					-----	-----	-----	-----	-----	
	TOTAL Trestle Structure				73,733	0	0	0	73,733	

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17:90. Recycle Waste	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:90.03. Pipe Sections									
17:90.03.01. Cut/Size Pipe (#1-#6)									
Cut/Size Pipe for Rad Survey and Loading onto Trailers									
Sections #1 thur #6.									
Note:This section is not included in Estimate #284.									
This section is based on an early Rev. of Estimate #284.									
USR	Total Labor			65280.00	0.00	0.00	0.00	65280.00	
		1.00		65,280	0	0	0	65,280	65280.00
				-----	-----	-----	-----	-----	
	TOTAL Cut/Size Pipe (#1-#6)			65,280	0	0	0	65,280	

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17:90. Recycle Waste	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:90.03.02. Survey Pipe (#1-#6)									
Rad Survey Pipe Sections #1 thur #6.									
Note: This section is not included in Estimate #284.									
The section was added based on an early Rev. of Estimate #284.									
USR	Total Labor			78890.00	0.00	0.00	0.00	78890.00	
		1.00		78,890	0	0	0	78,890	78890.00
				-----	-----	-----	-----	-----	
	TOTAL Survey Pipe (#1-#6)			78,890	0	0	0	78,890	

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17:90. Recycle Waste	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:90.03.03. Clean Pipe									
17:90.03.03.01. Prep Pipe									
Prep Clean Pipe for Scrap Dealer.									
Sections #1 thur #8									
USR	Total Labor-per Estimate #284			11575.00	0.00	0.00	0.00	11575.00	
		1.00		11,575	0	0	0	11,575	11575.00
				-----	-----	-----	-----	-----	
	TOTAL Prep Pipe			11,575	0	0	0	11,575	

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17:90. Recycle Waste		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:90.03.03.02. Load Pipe										
Load Pipe on Scrap Dealer Trucks										
Pipe Sections #1 thur #8										
USR	Total Labor-per Estimate #284	1.00			39802.00	0.00	0.00	0.00	39802.00	39802.00
					39,802	0	0	0	39,802	
	TOTAL Load Pipe				39,802	0	0	0	39,802	
	TOTAL Clean Pipe				51,377	0	0	0	51,377	

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17:90. Recycle Waste		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:90.03.04. Cut/Size Pipe (#7 & #8)										
Cut/Size Pipe for Rad Survey and Load onto Trailers. Pipe Sections #7 and #8.										
Note:This section is not included in Estimate #284. The section was added based early Rev. of Estimate #284.										
USR	Total Labor				18651.00	0.00	0.00	0.00	18651.00	
		1.00			18,651	0	0	0	18,651	18651.00
	TOTAL Cut/Size Pipe (#7 & #8)				18,651	0	0	0	18,651	

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17:90. Recycle Waste									

	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:90.03.05. Survey Pipe (#7 & #8)									
Rad Survey Pipe Sections #7 and #8.									
Note: This section is not included in Estimate #284.									
The section was added based on early Rev. of Estimate #284.									
USR	Total Labor			33809.00	0.00	0.00	0.00	33809.00	
		1.00		33,809	0	0	0	33,809	33809.00
				-----	-----	-----	-----	-----	
TOTAL Survey Pipe (#7 & #8)				33,809	0	0	0	33,809	
				-----	-----	-----	-----	-----	
TOTAL Pipe Sections				248,007	0	0	0	248,007	
				-----	-----	-----	-----	-----	
TOTAL Recycle Waste				321,740	0	0	0	321,740	

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17:91. Post Decommissioning Activities	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST		

17:91. Post Decommissioning Activities											
17:91.01. Prepare Final D&D Report											
Preparation of the final decontamination and decommissioning report will include the following activities:											
1. Analysis and preparation											
2. Final analysis review and revision											
17:91.01.01. Analysis and Preparation											
Output;											
Assumed duration for this activity is 15 crew days.											
ERC	ERC SAFETY AND HEALTH - 1 EA	120.00	HR 58000	60.01 7,201	0.00 0	0.00 0	0.00 0	60.01 7,201	60.01		
ERC	ERC ENVIRONMENTAL ENG - 2 EA	240.00	HR 31000	65.59 15,742	0.00 0	0.00 0	0.00 0	65.59 15,742	65.59		
ERC	ERC ADMINISTRATIVE SERCIES-1 EA	120.00	HR 55000	30.05 3,606	0.00 0	0.00 0	0.00 0	30.05 3,606	30.05		
USR	Allowance for Printing and Copying	1.00	LS	0.00 0	0.00 0	540.00 540	0.00 0	540.00 540	540.00		
TOTAL Analysis and Preparation				120.00	HR	26,549	0	540	0	27,089	225.74

Fri 23 Feb 2001
 Eff. Date 03/11/99
 DETAILED ESTIMATE

U.S. Army Corps of Engineers
 PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
 PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)
 17. Decon and Decommissioning (D&D)

TIME 12:19:57
 DETAIL PAGE 57

17:91. Post Decommissioning Activities			QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
17:91.01.02. Final Analysis Review and Revision											
Output: Assumed duration for this activity is 10 crew days.											
ERC	ERC ENVIRONMENTAL ENG - 2 EA	160.00	HR	31000	65.59	0.00	0.00	0.00	0.00	65.59	65.59
					10,494	0	0	0	0	10,494	
ERC	ERC PROJECT MANAGEMENT - .25 EA	20.00	HR	51000	82.82	0.00	0.00	0.00	0.00	82.82	82.82
					1,656	0	0	0	0	1,656	
ERC	ERC ADMINISTRATIVE SERVICES - 1 EA.	80.00	HR	55000	30.05	0.00	0.00	0.00	0.00	30.05	30.05
					2,404	0	0	0	0	2,404	
	TOTAL Final Analysis Review and	80.00	HR		14,555	0	0	0	0	14,555	181.94
	TOTAL Prepare Final D&D Report				41,104	0	540	0	0	41,644	
	TOTAL Post Decommissioning Activities				41,104	0	540	0	0	41,644	
	TOTAL Decon and Decommissioning (D&D)				1,547,994	271,000	195,588	0	0	2,014,582	

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 Eff. Date 03/11/99
 DETAILED ESTIMATE

U.S. Army Corps of Engineers
 PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
 PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)
 18. Disposal

TIME 12:19:57
 DETAIL PAGE 58

18:01. Contaminated Pipe	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

18. Disposal									
18:01. Contaminated Pipe									
Load and Haul Contaminated Pipe to the Low Level Burial Ground.									
18:01.01. Drip Legs									
USR	Total Labor-per Estimate #284			9097.00	0.00	0.00	0.00	9097.00	
		1.00		9,097	0	0	0	9,097	9097.00
				-----	-----	-----	-----	-----	
	TOTAL Drip Legs			9,097	0	0	0	9,097	
				-----	-----	-----	-----	-----	
	TOTAL Contaminated Pipe			9,097	0	0	0	9,097	

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U.S. Army Corps of Engineers
 PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
 PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)
 18. Disposal

TIME 12:19:57
 DETAIL PAGE 59

18:02. Asbestos		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
18:02. Asbestos										
USR	Dumpster(30 CY) - per Estimate #284.	55.00	EA		0.00 0	0.00 0	0.00 0	400.00 22,000	400.00 22,000	400.00
TOTAL Asbestos					0	0	0	22,000	22,000	
TOTAL Disposal					9,097	0	0	22,000	31,097	

Fri 23 Feb 2001
 Eff. Date 03/11/99
 DETAILED ESTIMATE

U.S. Army Corps of Engineers
 PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
 PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)
 91. Project Management Support

TIME 12:19:57
 DETAIL PAGE 60

91:01. Project Management, Pre/Post	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST	

91. Project Management Support										
91:01. Project Management, Pre/Post										
Note:										
For the Pipe Trestle D&D Model it was assumed that the PM/CM manpower loading for Assessment would be 1/3 that of the RA Activities. To account for this reduction in manpower loading a .33 factor was applied to the Assessment Duration.										
ERC	ERC PROJECT MANAGER - 0.05 EA.	0.19	MO	51000	14355.44 2,775	0.00 0	0.00 0	0.00 0	14355.44 2,775	14355.44
ERC	ERC PROJECT ENGINEER - 0.1 EA.	0.39	MO	31000	11368.91 4,395	0.00 0	0.00 0	0.00 0	11368.91 4,395	11368.91
ERC	ERC TASK LEAD - 0.1 EA	0.39	MO	31000	11368.91 4,395	0.00 0	0.00 0	0.00 0	11368.91 4,395	11368.91
ERC	ERC LEAD ENGINEER - 0.8 EA.	3.09	MO	31000	11368.91 35,159	0.00 0	0.00 0	0.00 0	11368.91 35,159	11368.91
ERC	ERC AREA SUPERINTENDENT - 0.1 EA.	0.39	MO	53000	9139.85 3,533	0.00 0	0.00 0	0.00 0	9139.85 3,533	9139.85
ERC	ERC SITE SUPERINTENDENT - 0.5 EA. (linked to dismantling operations only)	6.19	MO	53000	9139.85 56,580	0.00 0	0.00 0	0.00 0	9139.85 56,580	9139.85
ERC	ERC ESTIMATOR - 0.05 EA.	0.19	MO	21000	9942.38 1,922	0.00 0	0.00 0	0.00 0	9942.38 1,922	9942.38
ERC	ERC PLAN/SCHED ENGR - 0.15 EA.	0.58	MO	21000	9942.38 5,766	0.00 0	0.00 0	0.00 0	9942.38 5,766	9942.38
ERC	ERC COST ENGR - 0.3 EA.	1.16	MO	21000	9942.38 11,530	0.00 0	0.00 0	0.00 0	9942.38 11,530	9942.38
ERC	ERC SAFETY AND HEALTH - 0.25 EA.	0.97	MO	58000	10401.71 10,052	0.00 0	0.00 0	0.00 0	10401.71 10,052	10401.71
ERC	ERC ADMINISTRATIVE SERVICES - 0.15 EA.	0.97	MO	55000	5208.66 5,034	0.00 0	0.00 0	0.00 0	5208.66 5,034	5208.66
ERC	ERC PROCUREMENT - 0.1 EA.	0.39	MO	41000	8410.12 3,251	0.00 0	0.00 0	0.00 0	8410.12 3,251	8410.12
ERC	ERC QUALITY ASSURANCE - 0.05 EA.	0.19	MO	52000	12065.71 2,332	0.00 0	0.00 0	0.00 0	12065.71 2,332	12065.71

Fri 23 Feb 2001
 Eff. Date 03/11/99
 DETAILED ESTIMATE

U.S. Army Corps of Engineers
 PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
 PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)
 91. Project Management Support

TIME 12:19:57
 DETAIL PAGE 61

91:01. Project Management, Pre/Post		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
ERC	ERC REGULATORY SUPPORT				12065.71	0.00	0.00	0.00	12065.71	
	- 0.05 EA.	0.19	MO	35000	2,332	0	0	0	2,332	12065.71
TOTAL Project Management, Pre/Post					149,058	0	0	0	149,058	

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 DETAILED ESTIMATE

U.S. Army Corps of Engineers
 PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
 PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)
 91. Project Management Support

TIME 12:19:57
 DETAIL PAGE 62

91:02. Project Management,Dismantling		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
91:02. Project Management,Dismantling										
USR	Management Support-per Estimate				246539.00	0.00	0.00	0.00	246539.00	
	#284	1.00	LS		246,539	0	0	0	246,539	246539.00
TOTAL Project Management,Dismantling					246,539	0	0	0	246,539	

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 Eff. Date 03/11/99
 DETAILED ESTIMATE

U.S. Army Corps of Engineers
 PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
 PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)
 91. Project Management Support

TIME 12:19:57
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91:03. Photography		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
91:03. Photography										
BHI	Rolls of Film				0.00	0.00	0.00	30.00	30.00	
	Assume one roll of film per	12.38	EA		0	0	0	371	371	30.00
	month of dismantling									
	activities. Fee includes all									
	tasks involved in processing,									
	documenting and filing of film.									
TOTAL Photography					0	0	0	371	371	
TOTAL Project Management Support					395,597	0	0	371	395,968	

Fri 23 Feb 2001
 Eff. Date 03/11/99
 DETAILED ESTIMATE

U.S. Army Corps of Engineers
 PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
 PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)
 XXX. Estimate Quantities (PTSL00)

TIME 12:19:57
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XXX:YY. Additional Quantities	QUANTY UOM CREW ID	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
XXX. Estimate Quantities (PTSL00)							
XXX:YY. Additional Quantities							
YYY Total Project Duration	3.87 MO	0.00 0	0.00 0	0.00 0	0.00 0	0.00 0	0.00
YYY Clean Landfill Volume	1043.00 LCY	0.00 0	0.00 0	0.00 0	0.00 0	0.00 0	0.00
YYY Salvaged/Recycled Volume	46.00 LCY	0.00 0	0.00 0	0.00 0	0.00 0	0.00 0	0.00
YYY Total Volume	1089.00 LCY	0.00 0	0.00 0	0.00 0	0.00 0	0.00 0	0.00
YYY Asbestos Volume	8797.00 CF	0.00 0	0.00 0	0.00 0	0.00 0	0.00 0	0.00
YYY Pipe Volume	19353 CF	0.00 0	0.00 0	0.00 0	0.00 0	0.00 0	0.00
YYY Facility Steel Volume	46.00 CY	0.00 0	0.00 0	0.00 0	0.00 0	0.00 0	0.00
YYY Mobile Lab Samples	100.00 EA	0.00 0	0.00 0	0.00 0	0.00 0	0.00 0	0.00
YYY Off-Site Samples	10.00 EA	0.00 0	0.00 0	0.00 0	0.00 0	0.00 0	0.00
TOTAL Additional Quantities		0	0	0	0	0	
TOTAL Estimate Quantities (PTSL00)		0	0	0	0	0	
TOTAL HANFORD: ER PROGRAM		2,004,850	281,671	195,588	152,371	2,634,481	

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 Eff. Date 03/11/99

U.S. Army Corps of Engineers
 PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
 PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)
 ** PROJECT DIRECT SUMMARY - FEATURE **

TIME 12:19:57

SUMMARY PAGE 1

	QUANTITY UOM	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
01 Mobilization & Preparatory Work		47,902	0	0	0	47,902	
02 Monitoring, Sampling & Analysis		4,261	10,671	0	130,000	144,932	
17 Decon and Decommissioning (D&D)		1,547,994	271,000	195,588	0	2,014,582	
18 Disposal		9,097	0	0	22,000	31,097	
91 Project Management Support		395,597	0	0	371	395,968	
XXX Estimate Quantities (PTSL00)							
TOTAL HANFORD: ER PROGRAM		2,004,850	281,671	195,588	152,371	2,634,481	
BHI Direct Distributable						486,062	
SUBTOTAL						3,120,543	
BHI General and Admin.						114,212	
TOTAL INCL OWNER COSTS						3,234,754	

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U.S. Army Corps of Engineers
 PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
 PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)
 ** PROJECT DIRECT SUMMARY - SUBFEAT **

TIME 12:19:57

SUMMARY PAGE 2

	QUANTITY UOM	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
01 Mobilization & Preparatory Work							
01:02 Mobilize Personnel		7,645	0	0	0	7,645	
01:04 Setup/Prepare Work Area		40,257	0	0	0	40,257	
TOTAL Mobilization & Preparatory Work		47,902	0	0	0	47,902	
02 Monitoring, Sampling & Analysis							
02:03 Air Monitoring and Sampling		4,261	10,671	0	0	14,932	
02:04 Sampling Rad Contaminated Media		0	0	0	130,000	130,000	
TOTAL Monitoring, Sampling & Analysis		4,261	10,671	0	130,000	144,932	
17 Decon and Decommissioning (D&D)							
17:01 Pre-Decommissioning Operations		70,313	0	648	0	70,961	
17:02 Equipment Rental		0	271,000	0	0	271,000	
17:03 Consummables		0	0	194,400	0	194,400	
17:04 Dismantling Activities		1,114,837	0	0	0	1,114,837	
17:90 Recycle Waste		321,740	0	0	0	321,740	
17:91 Post Decommissioning Activities		41,104	0	540	0	41,644	
TOTAL Decon and Decommissioning (D&D)		1,547,994	271,000	195,588	0	2,014,582	
18 Disposal							
18:01 Contaminated Pipe		9,097	0	0	0	9,097	
18:02 Asbestos		0	0	0	22,000	22,000	
TOTAL Disposal		9,097	0	0	22,000	31,097	
91 Project Management Support							
91:01 Project Management, Pre/Post		149,058	0	0	0	149,058	
91:02 Project Management, Dismantling		246,539	0	0	0	246,539	
91:03 Photography		0	0	0	371	371	
TOTAL Project Management Support		395,597	0	0	371	395,968	
XXX Estimate Quantities (PTSL00)							
XXX:YY Additional Quantities							
TOTAL HANFORD: ER PROGRAM		2,004,850	281,671	195,588	152,371	2,634,481	

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U.S. Army Corps of Engineers
 PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
 PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)
 ** PROJECT DIRECT SUMMARY - SYSTEM **

TIME 12:19:57

SUMMARY PAGE 4

	QUANTITY UOM	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST
01 Mobilization & Preparatory Work							
01:02 Mobilize Personnel		7,645	0	0	0	7,645	
TOTAL Mobilize Personnel		7,645	0	0	0	7,645	
01:04 Setup/Prepare Work Area							
01:04.01 Fab Water Manifolds		4,210	0	0	0	4,210	
01:04.02 Clear Area Below Trestle		24,895	0	0	0	24,895	
01:04.03 Verify Zero Energy		3,979	0	0	0	3,979	
01:04.04 Relocate Fire Hydrant		7,173	0	0	0	7,173	
TOTAL Setup/Prepare Work Area		40,257	0	0	0	40,257	
TOTAL Mobilization & Preparatory Work		47,902	0	0	0	47,902	
02 Monitoring, Sampling & Analysis							
02:03 Air Monitoring and Sampling							
02:03.03 Asbestos Air Monitoring	442.00 HR	4,261	10,671	0	0	14,932	33.78
TOTAL Air Monitoring and Sampling		4,261	10,671	0	0	14,932	
02:04 Sampling Rad Contaminated Media							
02:04.08 Sludge and Solid Waste		0	0	0	130,000	130,000	
TOTAL Sampling Rad Contaminated Media		0	0	0	130,000	130,000	
TOTAL Monitoring, Sampling & Analysis		4,261	10,671	0	130,000	144,932	
17 Decon and Decommissioning (D&D)							
17:01 Pre-Decommissioning Operations							
17:01.01 Prepare Decommissioning Plan		50,334	0	0	0	50,334	
17:01.02 Rad. Work Permit (RWP)/ Tech.		1,968	0	0	0	1,968	
17:01.03 Haz Mat'l & Radioactivity Survey		18,011	0	648	0	18,659	
TOTAL Pre-Decommissioning Operations		70,313	0	648	0	70,961	
17:02 Equipment Rental		0	271,000	0	0	271,000	
17:03 Consummables		0	0	194,400	0	194,400	

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U.S. Army Corps of Engineers
 PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
 PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)
 ** PROJECT DIRECT SUMMARY - SYSTEM **

TIME 12:19:57
 SUMMARY PAGE 5

	QUANTITY UOM	LABOR	EQUIPMNT	MAT/SUPP	UNITCOST	TOTAL COST	UNIT COST

17:04	Dismantling Activities						
17:04.01	Dismantle Pipe/Trestle Structure	823,382	0	0	0	823,382	
17:04.02	Remove and Package Asbestos	291,455	0	0	0	291,455	
	TOTAL Dismantling Activities	1,114,837	0	0	0	1,114,837	

17:90	Recycle Waste						
17:90.02	Trestle Structure	73,733	0	0	0	73,733	
17:90.03	Pipe Sections	248,007	0	0	0	248,007	
	TOTAL Recycle Waste	321,740	0	0	0	321,740	

17:91	Post Decommissioning Activities						
17:91.01	Prepare Final D&D Report	41,104	0	540	0	41,644	
	TOTAL Post Decommissioning Activities	41,104	0	540	0	41,644	
	TOTAL Decon and Decommissioning (D&D)	1,547,994	271,000	195,588	0	2,014,582	

18	Disposal						
18:01	Contaminated Pipe						
18:01.01	Drip Legs	9,097	0	0	0	9,097	
	TOTAL Contaminated Pipe	9,097	0	0	0	9,097	
18:02	Asbestos						
	TOTAL Disposal	9,097	0	0	22,000	31,097	

91	Project Management Support						
91:01	Project Management, Pre/Post	149,058	0	0	0	149,058	
91:02	Project Management, Dismantling	246,539	0	0	0	246,539	
91:03	Photography	0	0	0	371	371	
	TOTAL Project Management Support	395,597	0	0	371	395,968	

XXX	Estimate Quantities (PTSL00)						
XXX:YY	Additional Quantities						
		-----	-----	-----	-----	-----	

Fri 23 Feb 2001
Eff. Date 03/11/99
ERROR REPORT

U.S. Army Corps of Engineers
PROJECT PTSL01: HANFORD: ER PROGRAM - D&D FACILITIES
PIPING TRESTLE MODEL, REV 1, 4/99 (PTSL01)

TIME 12:19:57
ERROR PAGE 1

R2029:

No Crew Database - No Crew Summaries or Reprice

* * * END OF ERROR REPORT * * *

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